Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
d A cross	1	165.00	1.00	0.225	37.13			
t A cross	1	112.00	1.00	0.225	25.20			
d A main	1	177.00	1.00	0.225	39.83			
oss road	1	182.00	1.00	0.225	40.95			
id reaches	15	12.00	5.50	0.225	222.75			
					731.25	**Cum**	**1962.57**	**1435128.44**
oviding and applying primer coat with ss bitumen emulsion on prepared surface of granular base ich as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using echanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6)								
asic rate	26.00							
1% AD-HOC	2.86							
ub Total-1	28.86							
% AW	1.73							
ub Total-2	30.59							
JGD Cut portion								
Main road	1	303.00	1.00		303.00			
cross rd - 1, upto temple	1	400.00	1.00		400.00			
2nd main road	1	160.00	1.00		160.00			
2nd mn rd, 2nd cross rd	1	110.00	1.00		110.00			
4th A cross rd	1	28.00	1.00		28.00			
5th A cross rd L shape	1	222.00	1.00		222.00			
3rd B main	1	156.00	1.00		156.00			
2nd B cross	1	60.00	1.00		60.00			
2nd A cross	1	185.00	1.00		185.00			
3rd A cross	1	165.00	1.00		165.00			
1st A cross	1	112.00	1.00		112.00			
3rd A main	1	177.00	1.00		177.00			
cross road	1	182.00	1.00		182.00			
Bad reaches	15	12.00	5.50		990.00			
Profile correction								
Main road	1	303.00	2.40		727.20			
cross rd - 1, upto temple	1	400.00	2.10		840.00			
2nd main road	1	160.00	2.00		320.00			
2nd mn rd, 2nd cross rd	1	110.00	3.00		330.00			
4th A cross rd	1	28.00	3.00		84.00			
5th A cross rd L shape	1	222.00	3.00		666.00			
3rd B main	1	156.00	2.70		421.20			
2nd B cross	1	60.00	2.50		150.00			
2nd A cross	1	185.00	2.00		370.00			
3rd A cross	1	165.00	1.80		297.00			
1st A cross	1	112.00	2.30		257.60			
3rd A main	1	177.00	2.10		371.70			
cross road	1	182.00	2.30		418.60			
					8503.30	**Sqm**	**30.59**	**260129.55**

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	RB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading mixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve desired compaction as per MORTH table 500-10 complete in all respects complete as per ecifications MORTH Specification No.507 (P.No.162&163 It.No.21.17.6)								
	sic rate	6717.00							
	% AD-HOC	738.87							
	b Total-1	7455.87							
	% AW	447.35							
	b Total-2	7903.22							
	SD Cut portion								
	ain road	1	303.00	1.00	0.05	15.15			
	oss rd - 1, upto temple	1	400.00	1.00	0.05	20.00			
	nd main road	1	160.00	1.00	0.05	8.00			
	nd mn rd, 2nd cross rd	1	110.00	1.00	0.05	5.50			
	th A cross rd	1	28.00	1.00	0.05	1.40			
	th A cross rd L shape	1	222.00	1.00	0.05	11.10			
	rd B main	1	156.00	1.00	0.05	7.80			
	nd B cross	1	60.00	1.00	0.05	3.00			
	nd A cross	1	185.00	1.00	0.05	9.25			
	rd A cross	1	165.00	1.00	0.05	8.25			
	st A cross	1	112.00	1.00	0.05	5.60			
	rd A main	1	177.00	1.00	0.05	8.85			
	cross road	1	182.00	1.00	0.05	9.10			
	Bad reaches	15	12.00	5.50	0.05	49.50			
	Profile correction								
	Main road	1	303.00	2.40	0.05	36.36			
	cross rd - 1, upto temple	1	400.00	2.10	0.05	42.00			
	2nd main road	1	160.00	2.00	0.05	16.00			
	2nd mn rd, 2nd cross rd	1	110.00	2.00	0.05	11.00			
	4th A cross rd	1	28.00	2.00	0.05	2.80			
	5th A cross rd L shape	1	222.00	2.00	0.05	22.20			
	3rd B main	1	156.00	2.70	0.05	21.06			
	2nd B cross	1	60.00	2.50	0.05	7.50			
	2nd A cross	1	185.00	2.00	0.05	18.50			
	3rd A cross	1	165.00	1.80	0.05	14.85			
	1st A cross	1	112.00	2.30	0.05	12.88			
	3rd A main	1	177.00	1.60	0.05	14.16			
	cross road	1	182.00	2.30	0.05	20.93			
						402.74	**Cum**	**7903.22**	**3182943.71**
3	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501. (P.No.161 & I.No.21.2)								
	Basic rate	3.00							
	11% AD-HOC	0.33							
	Sub Total-1	3.33							
	6% AW	0.20							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Sub Total-2	3.53							
Main road	1	303.00	6.20		1878.60			
cross rd - 1, upto temple	1	400.00	5.20		2080.00			
2nd main road	1	160.00	4.00		640.00			
2nd mn rd, 2nd cross rd	1	110.00	5.60		616.00			
4th A cross rd	1	28.00	6.00		168.00			
5th A cross rd L shape	1	222.00	5.10		1132.20			
3rd B main	1	156.00	7.20		1123.20			
2nd B cross	1	60.00	5.80		348.00			
2nd A cross	1	185.00	6.10		1128.50			
3rd A cross	1	165.00	6.00		990.00			
1st A cross	1	112.00	6.10		683.20			
3rd A main	1	177.00	6.40		1132.80			
cross road	1	182.00	4.00		728.00			
					12648.50	**Sqm**	**3.53**	**44,646.68**
KSRRB 500-7:Providing and applying tack coat with bitumen emulsion using 80/100 grade bitumen (VG20) on the prepared black toped suface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications.(P.No.160 & I.No.21.7)								
Basic rate	11.00							
11% AD-HOC	1.21							
Sub Total-1	12.21							
6% AW	0.73							
Sub Total-2	12.94							
Main road	1	303.00	6.20		1878.60			
cross rd - 1, upto temple	1	400.00	5.20		2080.00			
2nd main road	1	160.00	4.00		640.00			
2nd mn rd, 2nd cross rd	1	110.00	5.60		616.00			
4th A cross rd	1	28.00	6.00		168.00			
5th A cross rd L shape	1	222.00	5.10		1132.20			
3rd B main	1	156.00	7.20		1123.20			
2nd B cross	1	60.00	5.80		348.00			
2nd A cross	1	185.00	6.10		1128.50			
3rd A cross	1	165.00	6.00		990.00			
1st A cross	1	112.00	6.10		683.20			
3rd A main	1	177.00	6.40		1132.80			
cross road	1	182.00	4.00		728.00			
					12648.50	**Sqm**	**12.94**	**163704.48**
15 KSRRB M500- 15. Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II (30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications MORTH Specification No.509 (P.No.164 Item No.21.22.6)								
Basic rate	7659.00							
11% AD-HOC	842.49							
Sub Total-1	8501.49							
6% AW	510.09							
Sub Total-2	9011.58							
Main road	1	303.00	6.20	0.04	75.14			
cross rd - 1, upto temple	1	400.00	5.20	0.04	83.20			

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
2nd main road	1	160.00	4.00	0.04	25.60			
2nd mn rd, 2nd cross rd	1	110.00	5.60	0.04	24.64			
4th A cross rd	1	28.00	6.00	0.04	6.72			
5th A cross rd L shape	1	222.00	5.10	0.04	45.29			
3rd B main	1	156.00	7.20	0.04	44.93			
2nd B cross	1	60.00	5.80	0.04	13.92			
2nd A cross	1	185.00	6.10	0.04	45.14			
3rd A cross	1	165.00	6.00	0.04	39.60			
1st A cross	1	112.00	6.10	0.04	27.33			
3rd A main	1	177.00	6.40	0.04	45.31			
cross road	1	182.00	4.00	0.04	29.12			
					505.94	**Cum**	**9011.58**	**4559318.48**
Providing and fixing pre cast solid **cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete (P.No-25, I No-5.30)								
Basic rate	313.00							
11% AD-HOC	34.43							
Sub Total-1	347.43							
6% AW	20.85							
Sub Total-2	368.28							
missing & damaged	2	25.00			50.00			
B = A/0.45				**A**	**50.00**			
				B	**111.00**	**Nos**	**368.28**	**40,878.61**
KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No-183, I No-24.1)								
Basic rate	60.00							
11% AD-HOC	6.60							
Sub Total-1	66.60							
6% AW	4.00							
Sub Total-2	70.60							
	2	150.00	0.35		105.00			
					105.00	**Sqm**	**70.60**	**7,412.58**
KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 1974 (P.No.185 & I.No.24.15)								
Basic rate	512.00							
11% AD-HOC	56.32							
Sub Total-1	568.32							
6% AW	34.10							
Sub Total-2	602.42							
Main road	2	303.00	0.10		60.60			
cross rd - 1, upto temple	2	400.00	0.10		80.00			
2nd main road	2	160.00	0.10		32.00			
2nd mn rd, 2nd cross rd	2	110.00	0.10		22.00			
4th A cross rd	2	28.00	0.10		5.60			

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
5th A cross rd L shape	2	222.00	0.10		44.40			
3rd B main	2	156.00	0.10		31.20			
2nd B cross	2	60.00	0.10		12.00			
2nd A cross	2	185.00	0.10		37.00			
3rd A cross	2	165.00	0.10		33.00			
1st A cross	2	112.00	0.10		22.40			
3rd A main	2	177.00	0.10		35.40			
cross road	2	182.00	0.10		36.40			
					452.00	Sqm	602.42	272293.48
KSRRB M800 Road markers / Road stud KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications.(P.No-189,I No-24.41)								
Basic rate	339.00							
11% AD-HOC	37.29							
Sub Total-1	376.29							
6% AW	22.58							
Sub Total-2	398.87							
		2200.00			4400.00			
At 6.00m interval					733.33	Nos	398.87	292502.76
							Total Construction Cost	14776609.54
							DPR & PMC Charges	223300.00
							Sub Total	14999909.54
							Utility Shifting, Miscellaneous, Rounding off	90.46
							GRAND TOTAL	15000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017, issue rates and Data Rates.

Assistant Engineer

Asst. Executive Engineer,

Executive Engineer,
Yelahanka Division,
BBMP Bangalore
7/2/18

Administrative Approval

Accorded For .....
Head of A/C.....
CER NO :..... Dt:..

E.E, (Project)

Technical Sanction

Accorded For 15 3.00 lakhs
Head of A/C P-2415
CER NO :.....642..... Dt: 8/2/18

TA CE (YNK)

Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: Improvements to roads and drains balance main and cross roads of B sector in ward No. 04

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Estimate Cost Rs. 150.00 Lakhs Amount
Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3). (Page No 25., I.No.5.33 of KPWD SR 2016-17)								
Basic rate	76.00							
11% AD-HOC	8.36							
Sub Total-1	84.36							
6% AW	5.06							
Sub Total-2	89.42							
Top slab								
cross road	2	45.00	1.00		90.00			
1st B main	2	414.00	1.00		828.00			
14th B cross	2	290.00	1.00		580.00			
Adheeti opticals	2	97.00	1.00		194.00			
12th B cross	2	118.00	1.00		236.00			
3rd B main	2	126.00	1.00		252.00			
13th B cross	2	108.00	1.00		216.00			
4th B main	2	165.00	1.00		330.00			
17th B cross (service rd)	2	153.00	1.00		306.00			
18th cross	2	112.00	1.00		224.00			
20th B main	2	475.00	1.00		950.00			
Behind busstop	2	140.00	1.00		280.00			
Brite school to temple	2	225.00	1.00		450.00			
Drain slab								
cross road	2	45.00	1.65		148.50			
1st B main	2	414.00	1.65		1366.20			
14th B cross	2	290.00	1.65		957.00			
Adheeti opticals	2	97.00	1.65		320.10			
12th B cross	2	118.00	1.65		389.40			
3rd B main	2	126.00	1.65		415.80			
13th B cross	2	108.00	1.65		356.40			
4th B main	2	165.00	1.65		544.50			
17th B cross (service rd)	2	153.00	1.65		504.90			
18th cross	2	112.00	1.65		369.60			
20th B main	2	475.00	1.65		1567.50			
Behind busstop	2	140.00	1.65		462.00			
Brite school to temple	2	225.00	1.65		742.50			
Total Qty					**13080.40**			
Consider 30% of total Qty					**3924.12**			
					3924.12	**Sqm**	**89.42**	**350901.09**
Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
Basic rate	2100.00							
10% of Total qty of Item no -1 of precast slab					272.60			
					272.60	**Sqm**	**2100.00**	**572460.00**

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
viding granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including ng curing etc., complete. 7.5cm thick (Page No 25., I.No.5.31.1 of KPWD S.R 2016-17).								
sic rate	628.00							
% AD-HOC	69.08							
b Total-1	697.08							
AW	41.82							
b Total-2	738.90							
nsider 14% of Total qty of m no -1					1831.26			
					1831.26	**Sqm**	**738.90**	**1353123.85**
RRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal row upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly essed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. IORTH / Chapter 3 (Page No142., I.No.19.1 of KPWD S.R 2016-17).								
asic rate	82.00							
1% AD-HOC	9.02							
ub Total-1	91.02							
% AW	5.46							
ub Total-2	96.48							
0km ld & lt, transport	100.00							
Sub Total-3	196.48							
cross road	2	45.00	0.50	0.50	22.50			
1st B main	2	414.00	0.50	0.50	207.00			
14th B cross	2	290.00	0.50	0.50	145.00			
Adheeti opticals	2	97.00	0.50	0.50	48.50			
12th B cross	2	118.00	0.50	0.50	59.00			
3rd B main	2	126.00	0.50	0.50	63.00			
13th B cross	2	108.00	0.50	0.50	54.00			
4th B main	2	165.00	0.50	0.50	82.50			
17th B cross (service rd)	2	153.00	0.50	0.50	76.50			
20th B main	2	475.00	0.50	0.50	237.50			
UGD Cut portion								
cross road	1	45.00	1.00	0.35	15.75			
1st B main	1	414.00	1.00	0.35	144.90			
14th B cross	1	290.00	1.00	0.35	101.50			
Adheeti opticals	1	97.00	1.00	0.40	38.80			
12th B cross	1	118.00	1.00	0.40	47.20			
3rd B main	1	126.00	1.00	0.40	50.40			
13th B cross	1	108.00	1.00	0.40	43.20			
4th B main	1	165.00	1.00	0.40	66.00			
17th B cross (service rd)	1	153.00	1.00	0.40	61.20			
20th B main	2	475.00	1.20	0.40	456.00			
Bad reaches	15	10.00	5.00	0.40	300.00			
culvert	4	8.00	1.50	1.00	48.00			
					2368.45	**Cum**	**196.48**	**465355.90**
KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.2)/ PWD SR 2016-17								